Transformation Overview for Executive Committee on Highway Safety



Presented by Victor Barbour, PE

"Connecting People & Places in North Carolina"

Overview

- Transformation Initiatives
- Mission, Goals, and Values
- Value Trees
- Leading and Lagging Indicators
- Executive Dashboard Safety Gauge
- Safety Metrics on PDA's

Why Transformation

STRAIN OF EXTERNAL TRENDS

Growing Demand on System

- Doubling of "Vehicle Miles Traveled" by 2030
- NC population projected to grow by 50% between 2000 and 2030, "7th most populous state by 2030"

Increasing Cost of Supplies

- 80% construction supplies inflation since 2002
- Spike in global asphalt, cement, and steel prices expected to continue

Declining Funding

- State gas tax purchasing power has declined (inflation and mpg)
- Federal Highway Trust Fund program projected to run out of funding by 2009
- Transportation funding flat/declining for FY2008/09*

McKinsey Survey Findings

Strengths

- Change Commitment
- Financial Stability
- Technical Skills
- "Can Do Attitude"

Shortcomings

- Organizational Structure...
 Silo'ed and non-collaborative
- Failing "Talent System"Recruit/Motivate/Develop
- Communication...Not pro-active

Development Areas

- One Common FocusedDirection
- Strategic-ness of Project and Services
- Improve Prioritization,
 Accountability, and
 Coordination of Core
 Processes
- Telling our Story...the good that we do

Five Key Transformation Initiatives

Strategic Direction

Program and Project Delivery

Planning and Prioritization

Performance and Accountability

Improved Human Resource Mgt

Initiative 1

Strategic Direction



Working together for a common purpose ...

Mission, Goals and Values

NCDOT

OUR MISSION

Connecting people and places in North Carolina – safely and efficiently, with accountability and environmental sensitivity

OUR GOALS

- Make our transportation network safer
- Make our transportation network move people and goods more efficiently
- · Make our infrastructure last longer
- Make our organization a place that works well
- Make our organization a great place to work



OUR VALUES

- SAFETY We strive for safety throughout our transportation networks as well as in our work and our daily lives.
- CUSTOMER SERVICE We respond to our customers, both internal and external, in an open, professional and timely manner.
- INTEGRITY We earn and maintain trust by responsibly managing the states assets, acting ethically, and holding ourselves accountable for our actions.
- DIVERSITY We draw strength from our differences and work together in a spirit of teamwork and mutual respect.
- QUALITY We pursue excellence in delivering our projects, programs, services and initiatives.

Values are

- What an organization stands for and believes in
- Behavioral expectations
- Manner in which we conduct our business

Initiative 2

Program and Project Delivery

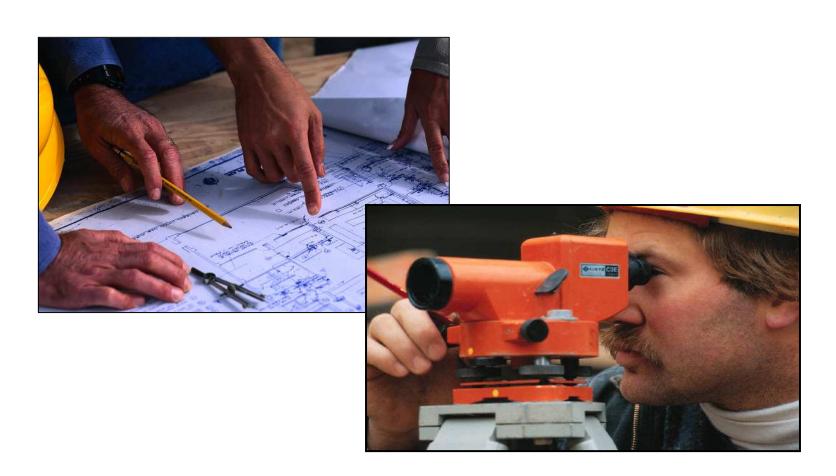




Delivering our projects, programs and services effectively on time and on budget...

Initiative 3

Planning and Prioritization

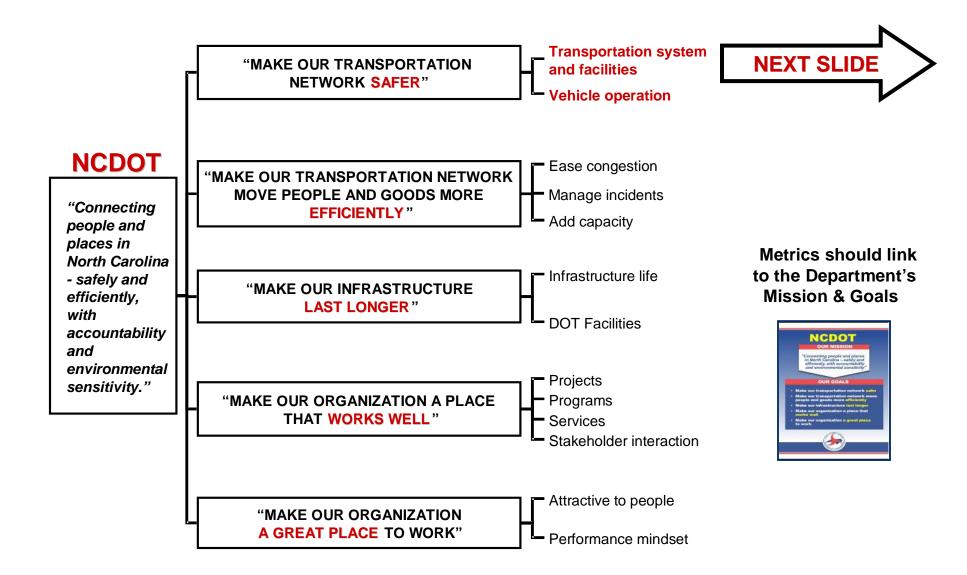


Planning and prioritizing our work.....

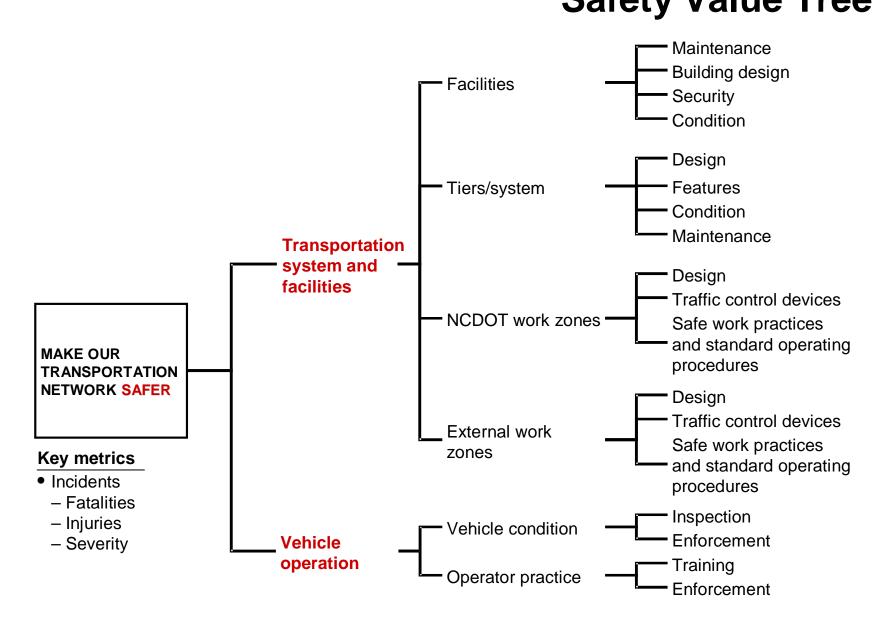
Performance and Accountability



NCDOT High Level Value Tree



Make Our Transportation Network SAFER Safety Value Tree



Metrics

SECRETARY OF TRANSPORTATION Definition of Measure/Comments Metrics "Make our transportation % improvement in fatalities compared to national goal of 1.0 fatality Fatalities per 100 million vehicle miles traveled network safer" Reliability on the System Strategic Highway Average operating speeds on Strategic Highway Corridors (SHC) "Make our transportation • Travel time reliability - standard deviation of average commuter time Corridors and Regional Tier Routes in selected urban areas network move people and • % Decrease in congestion goods more efficiently" % Increase in Frequency of Service Statewide Level of Service Scores for Facilities (assets) "Make our infrastructure • Department Infrastructure Health • % Increase in value of Department infrastructure last longer" % of projects and programs administered, managed and constructed Project/Program Delivery on Schedule and Budget on schedule and on budget (Planned vs. Actual) • % of solicitations sent to, % of bids received from, & % of contract • Business Development & Outreach "Make our organization a dollars awarded to DBEs, MBEs, WBEs, SBEs, and HUBs place that works well" • Customer survey scores (public, partners, etc.) Customer Service % improvement of existing overhead and program budget Fiscal Management Employee Safety • Number of incidents, lost work days, worker's comp claims

• Employee satisfaction survey composite score

• Retention rate of "Top Performers" and/or stabilization rate

"Make our organization a

great place to work"

• Employee Satisfaction

Recruiting, developing and retaining employees

"DRAFT" Metrics – Secretary of Transportation

GUIDE FOR DASHBOARD SCORECARD

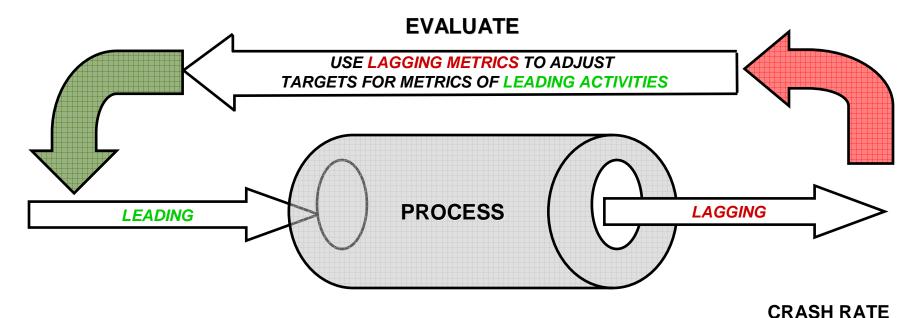
FOR USE IN PERFORMANCE REVIEW MEETINGS

	Metric	Metric Data	Target	Data Source	Wt (%)
Safer	Fatalities	Fatalities per 100 million vehicle miles; i.e. 1.58this will be compared against a baseline TBD (% improvement)	1.50-1.63	Traffic Engineering Branch	10
Efficiently	Reliability of Strategic Highway Corridor System	-Average operating speeds on Strategic Highway Corridors (SHC) -Travel time reliability -Congestion (Level of Service)		Transportation Planning Branch	
Ĺ	Transit Service	% Increase in Frequency of Service compared to previous year for Rail, Ferry, Public Transit, etc.	70-89%	Transit	5
Last Longer	Department Infrastructure Health	- Composite Statewide Rating (Level of Service Rating) - % annual increase in value of Department infrastructure	C-toC	- Asset Management-Maintenance Condition Reports - Financial Management Division	25
	Projects/Programs/Services on Schedule and on Budget	# of projects/programs/services planned for year divided by # actual completed = % success rate	70-89%	Program Development report from STaRS and/or BW, HICAMS	25
Works Well	Business Development and Outreach	% Contract dollars awarded to DBEs, MBEs, WBEs, SBEs, & HUBs	70-89%	SAP	10
	Customer Service	Customer survey scores (public, partners, etc.)	70-89%	TBD	5
	Fiscal Management	% improvement of administrative budget(s)	90-95%	TBD	10
Great	Employee Safety	# of reported incidents that cause lost work days and/or worker's comp claims compared to baseline, i.e previous year(s) reported incidents	6.1-7	Safety and Loss Control	10
Place to Work	Employee Satisfaction	TBD		Employee Survey	
Ĺ	Recruiting, developing and retaining employees	Retention rate of "Top Performers" and/or stabilization rate		<i>TBD</i> WORKING DRAFT 10/25/0	7; 12/7/07

Metrics: Leading vs. Lagging

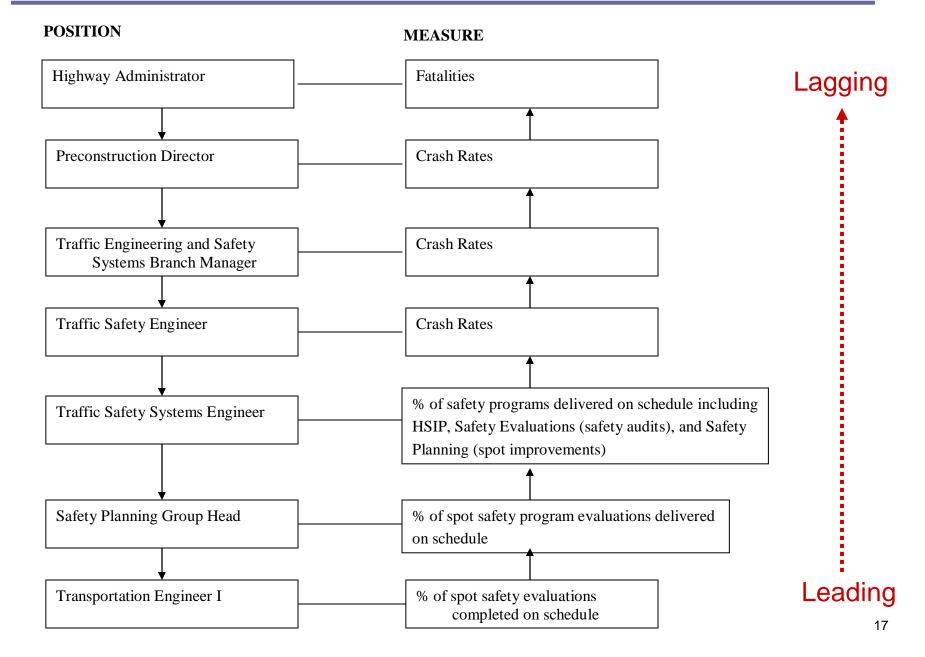
LEADING INDICATORS (Input)	LAGGING INDICATORS (Outcomes)
Leading Indicators are metrics that are task specific	Lagging Indicators are reactive
Leading Indicators measure and track performance before a problem arises	Lagging Indicators are reflective and measure performance against prior goals
Leading Indicators are proactive	Lagging Indicators indicate what has already happened (past)
Leading Indicators indicate what may happen (future)	
Leading Indicators are a predictor to the ability to meet future goals	

Metrics: LEADING vs. LAGGING Process



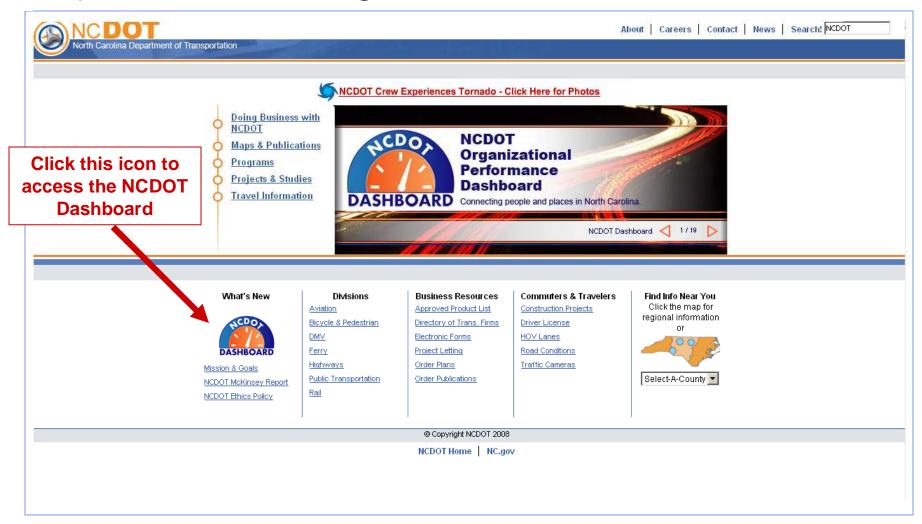
- IMPROVING SHOULDER DROP-OFFS
- ADDING REFLECTIVE MARKERS
- TURN LANE ADDITIONS
- LEGALLY LICENSED DRIVERS
- REDUCTION OF VMT BY USE OF ALTERNATIVE MODES
- TIMELY PROJECT DELIVERY

Example Cascading Metrics for SAFER



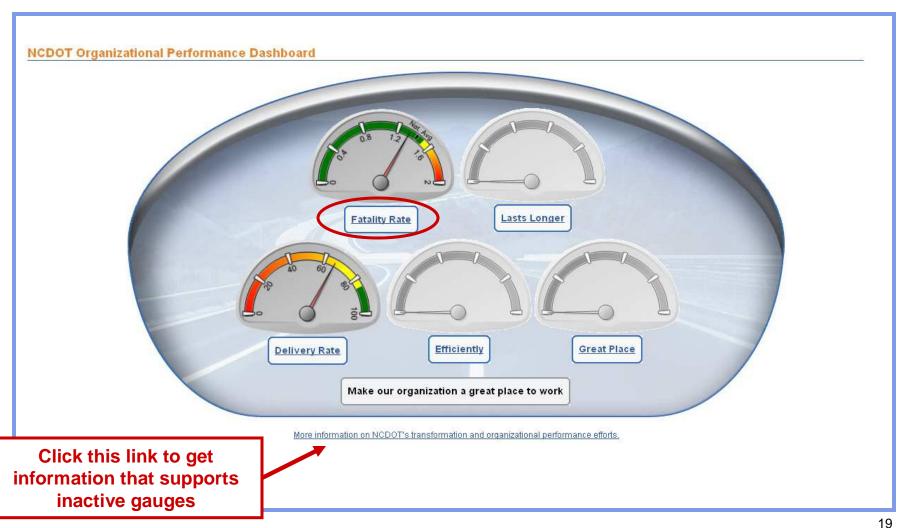
Access NCDOT Performance Dashboard

http://www.ncdot.org/



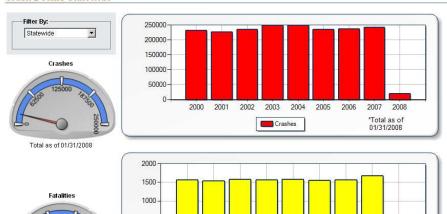
NCDOT Performance Dashboard - Ultimate

Visual Representation of Overall Health of an Organization



"Make Our Transportation Network Safer"

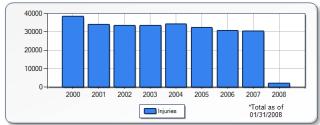






Total as of 01/31/2008





Yearly Statistics

	2000	2001	2002	2003	2004	2005	2006	2007	2008
Crashes	231647	225607	234478	248564	249155	234816	236326	241414	18790
Fatalities	1561	1533	1577	1561	1578	1550	1555	1668	120
Injuries	38464	34070	33424	33337	34213	32192	30766	30297	2022
VMT (100MVM) ₁	892.46	915.71	936.86	937.63	956.27	1008.61	1016.48	1047.99	90.04
Crash Rate	259.56	246.37	250.28	265.1	260.55	232.81	232.49	230.36	208.69
Fatality Rate	1.75	1.67	1.68	1.66	1.65	1.54	1.53	1.59	1.33
Injury Rate	43.1	37.21	35.68	35.55	35.78	31.92	30.27	28.91	22.46

^{1:} VMT=Vehicle Miles Traveled, MVM=Million Vehicle Miles.

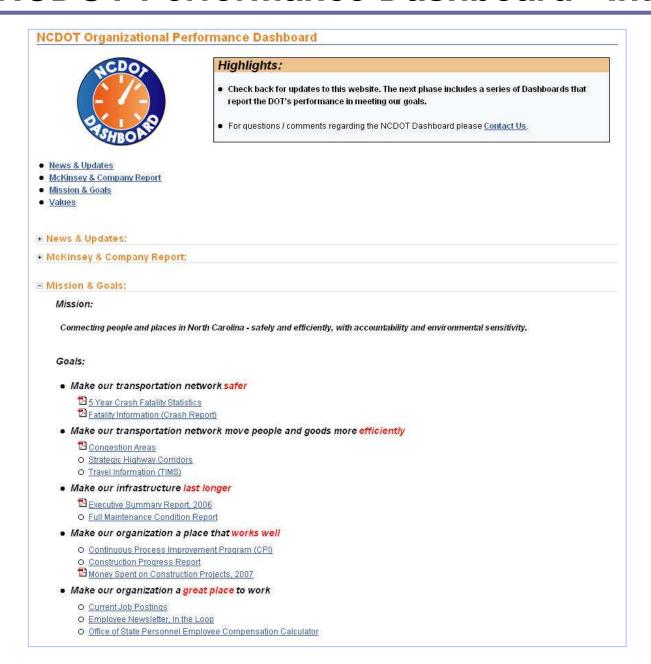
Data current as of: 01/31/2008

More information on how we get these numbers.

Click this link to learn how we got these numbers

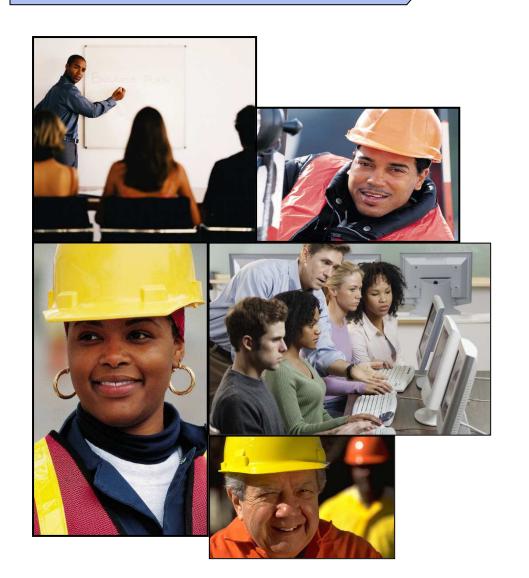
^{*} Total Year to Date

NCDOT Performance Dashboard - Interim



Initiative 5

Improved Human Management



Developing our employees by having the right people with the right set of skills in the right jobs at the right time to accomplish our mission...

Performance Dashboard Appraisal - Section A

Section A. Performance Metrics

Performance Cycle Date:		
Name:	Unit/Section:	
Classification/Title:	Supervisor's Name:	

NCDOT Goals: (1) Make our transportation network safer. (2) Make our transportation network move people and goods more efficiently. (3) Make our infrastructure last longer. (4) Make our organization a place that works well. (5) Make our organization a great place to work.

Enter	Performance Metrics (Results E	xpectations)		Pr	ogress Revie	ws	Year End		
NCDOT Goal (1-5 above)	Measure	Target	% Weight	Review Date:	Review Date:	R eview Date:	Actual Results	Number Rating *1, 2, 3	Weighted Rating % Weight x No. Rating
1	Crash Rates	238-230	5						
2	Reliability of Strategic Highway Corridor and Regional Tier Routes	TBD	0						
3	Division Infrastructure Health	C- to C	40						
4	Projects/Programs/Services on Schedule and on Budget	70-89%	40						
4	Customer Service	70-89%	5						
4	Fiscal Management	90-95%	5						
5	Employee Safety	6.1-7	5						
5	Employee Satisfaction	TBD	0						
5	Retaining, Developing, and Retaining Employees	TBD	0						
	Total % must = 100		100%		Combined Weighted Ratin		ghted Rating =		
*Number F	*Number Rating Key:			Sum of % weights that received a number rating of "1" at year end					

- 1 = Does not meet expectations
- 2 = Meets expectations
- 3 = Exceeds expectations

Beginning of performance cycle: Signatures indicate supervisor and employee have discussed performance metrics, NCDOT values and leadership competencies.

Supervisor's signature:	Title:	Date:	
Employee's signature:	Date:		

Performance Dashboard Appraisal - Section B

Section B. NCDOT Values

Supervisor's Instructions:

At the end of the performance cycle, check "YES" or "NO" as to whether the employee adhered to each value during the performance cycle. If "NO" is checked, a description of the non-adherence must be provided in the "Comments" column.

Values (Behavioral Expectations)		red to ue?	Supervisor's Comments
		NO	
<u>Safety:</u> We strive for safety throughout our transportation networks as well as in our work and our daily lives.			
Customer Service: We respond to our customers, both internal and external, in an open, professional and timely manner.			
Integrity: We earn and maintain trust by responsibly managing the state's assets, acting ethically, and holding ourselves accountable for our actions.			
<u>Diversity</u> : We draw strength from our differences and work together in a spirit of teamwork and mutual respect.			
Quality: We pursue excellence in delivering our projects, programs, services and initiatives.			

It all comes back to....

NCDOT OUR MISSION "Connecting people and places in North Carolina - safely and efficiently, with accountability and environmental sensitivity" **OUR GOALS** Make our transportation network safer Make our transportation network move people and goods more efficiently Make our infrastructure last longer · Make our organization a place that works well Make our organization a great place to work

- Working together for a common purpose
- Planning and prioritizing our work
- Delivering our projects & programs effectively
- Measuring our performance
- Developing our employees

Fulfilling our role of "Connecting People and Places in North Carolina"